Fig. 1

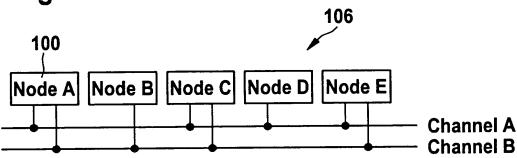
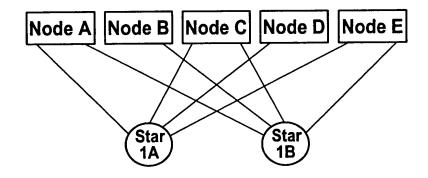
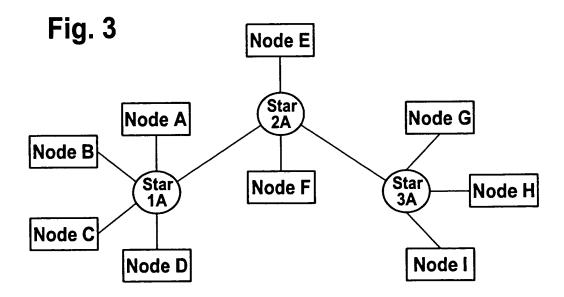


Fig. 2





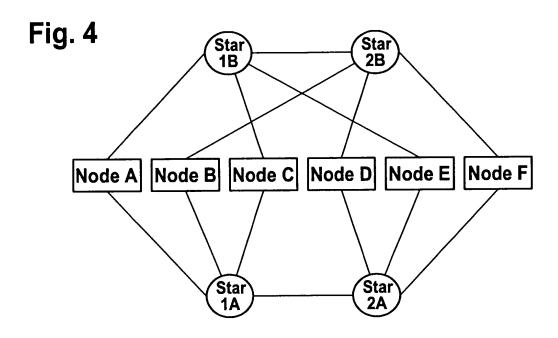


Fig. 5

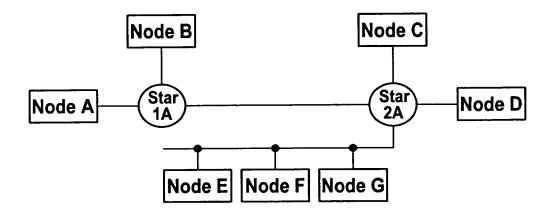


Fig. 6

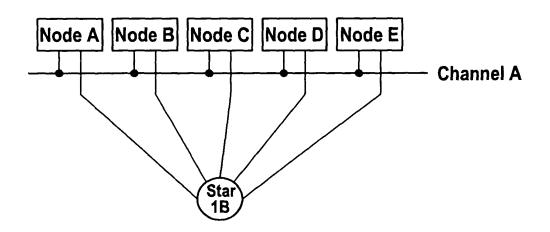


Fig. 7

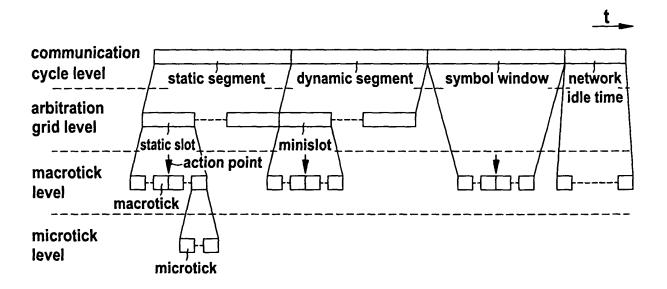


Fig. 8

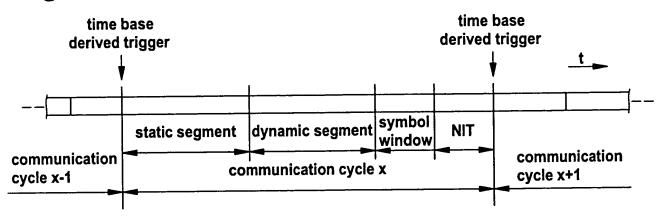


Fig. 9

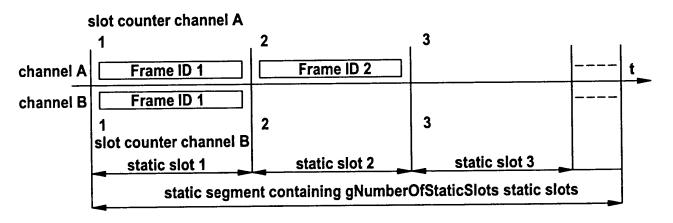
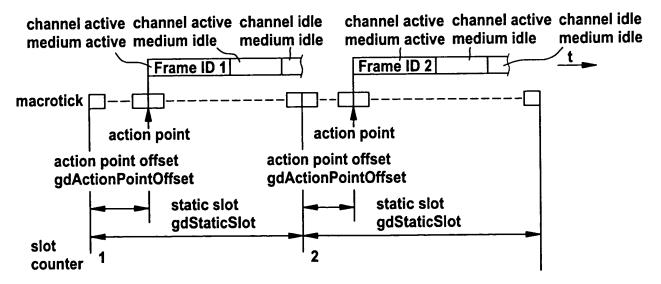
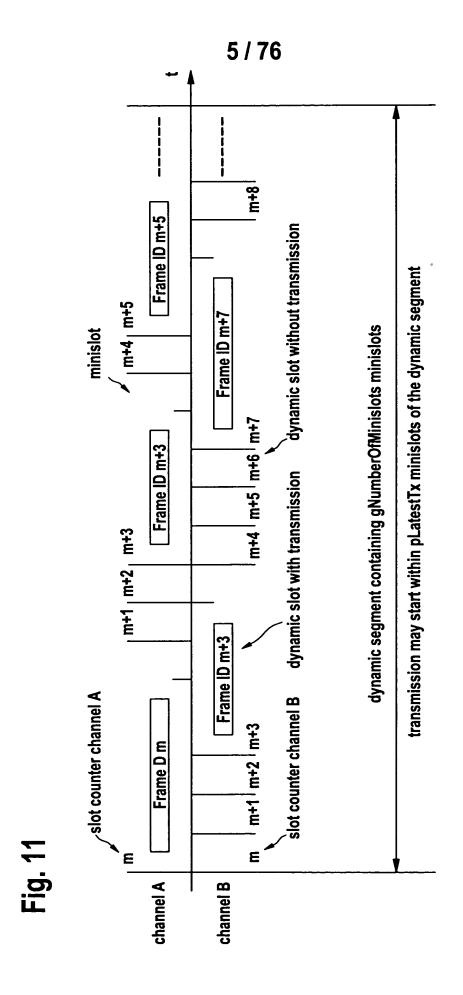


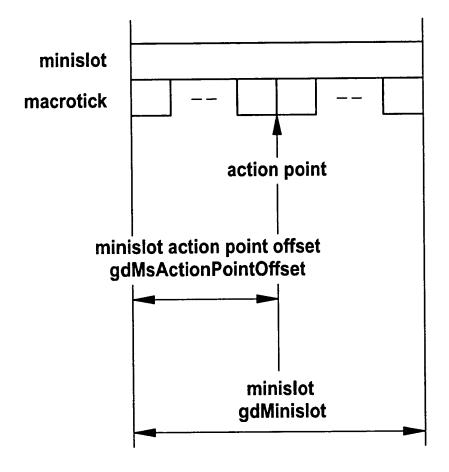
Fig. 10

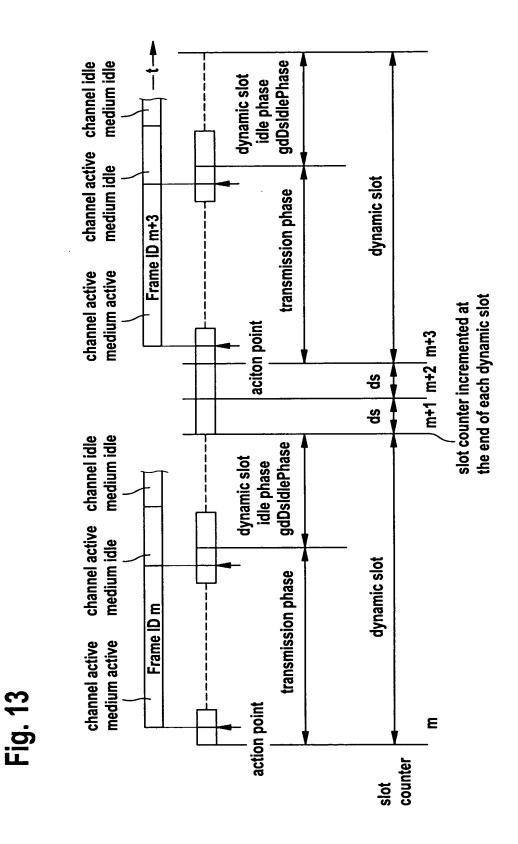




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Fig. 12





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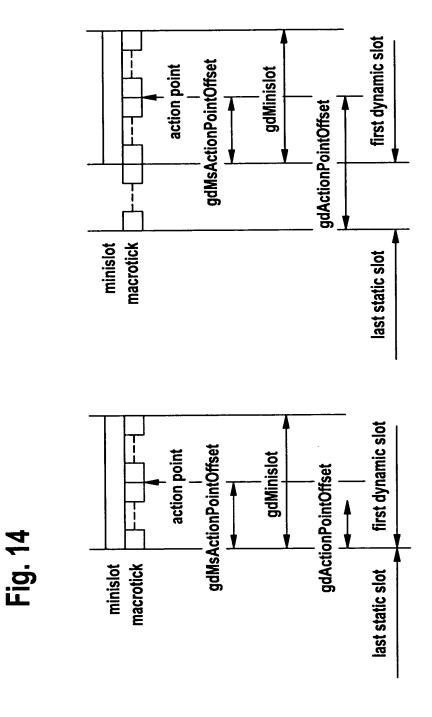


Fig. 15

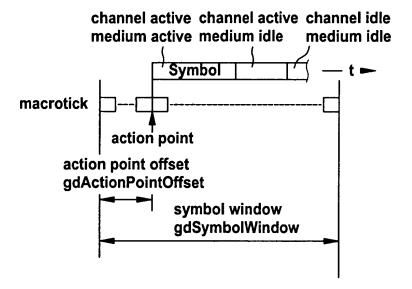
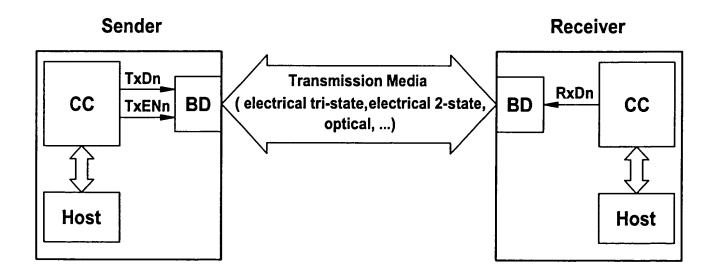
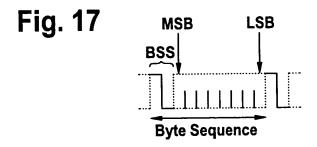
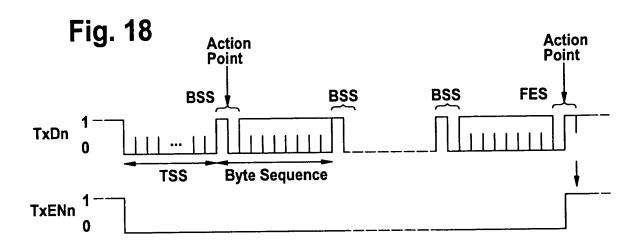
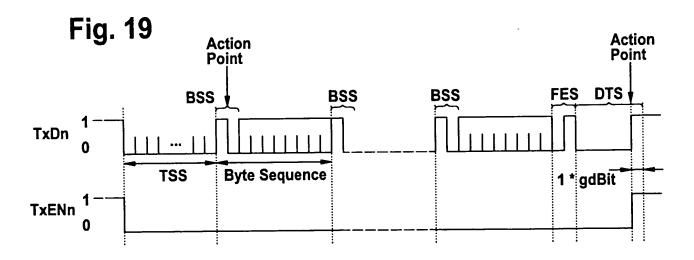


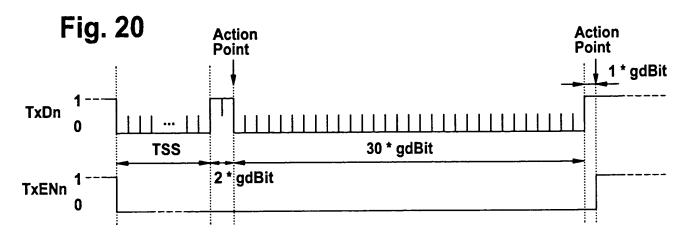
Fig. 16

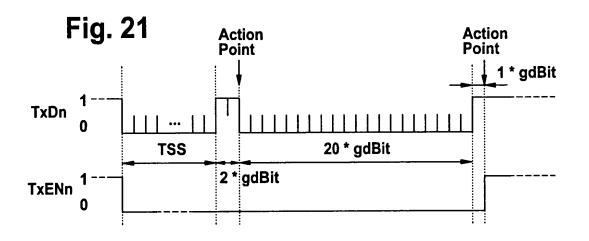












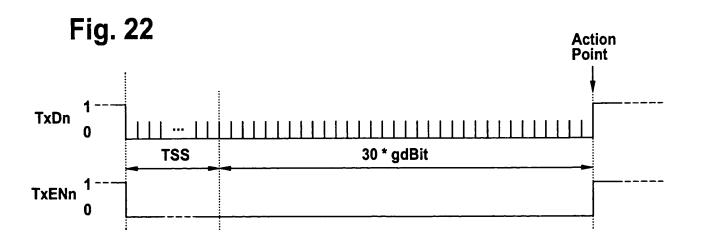


Fig. 23

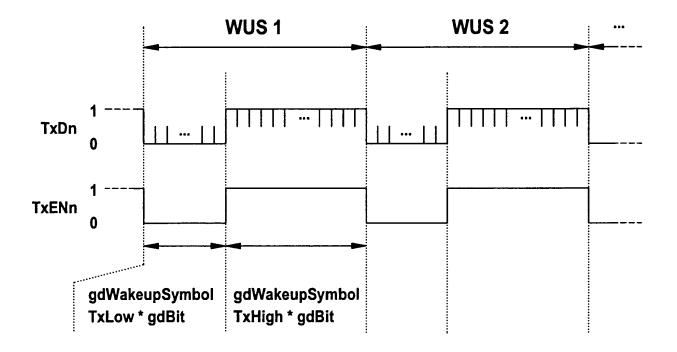


Fig. 24

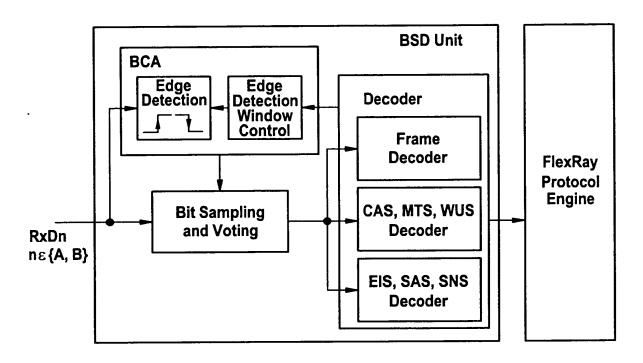


Fig. 25

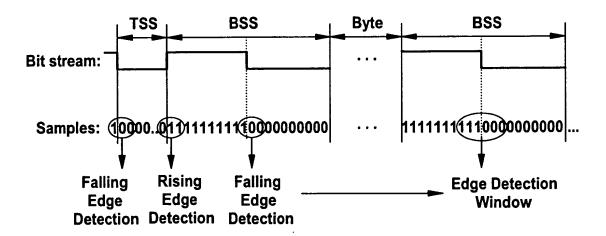


Fig. 26

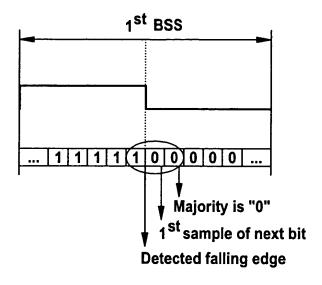


Fig. 27

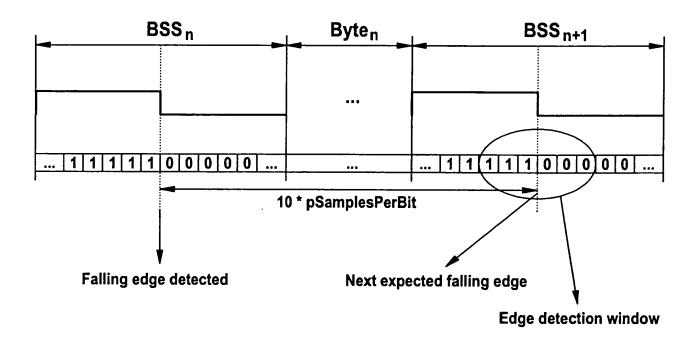


Fig. 28

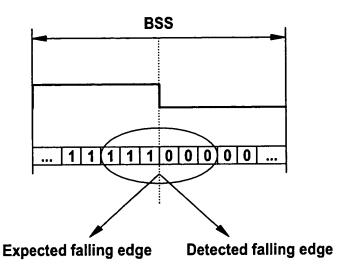


Fig. 29

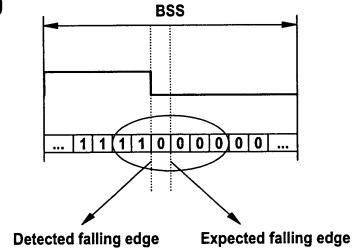


Fig. 30

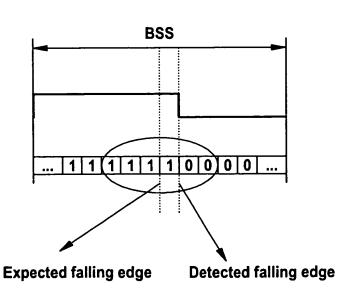
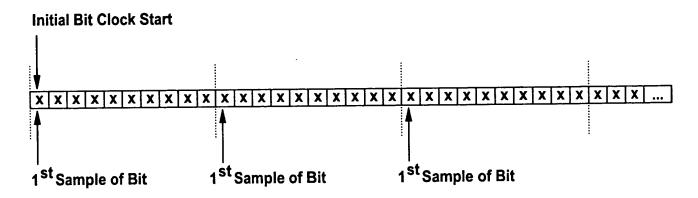


Fig. 31



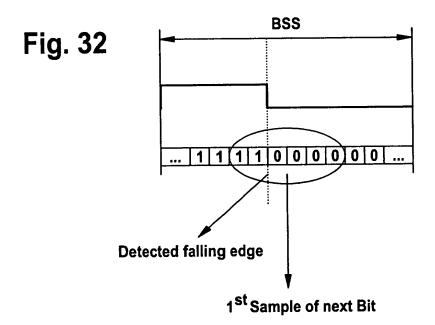


Fig. 33

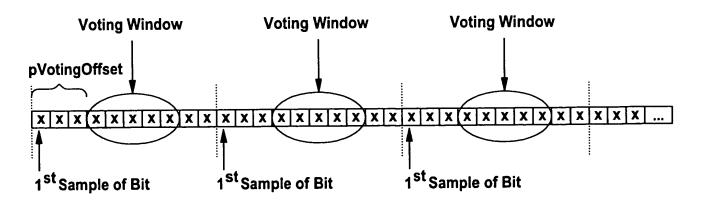


Fig. 34

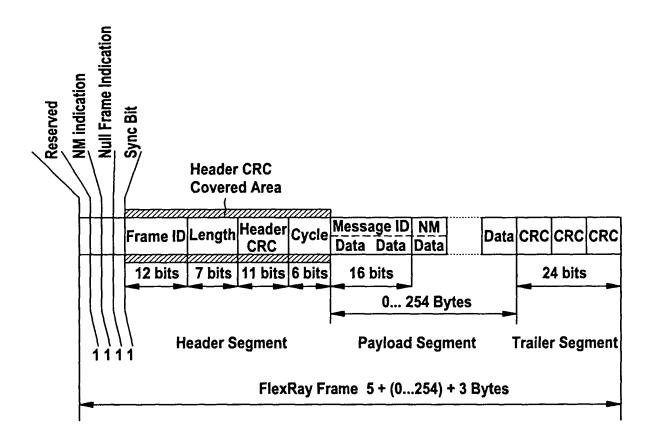


Fig. 35

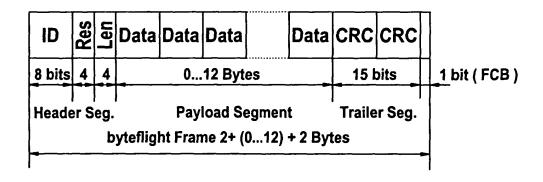


Fig. 36

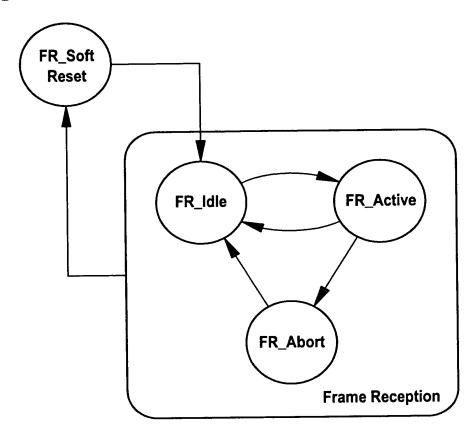


Fig. 37

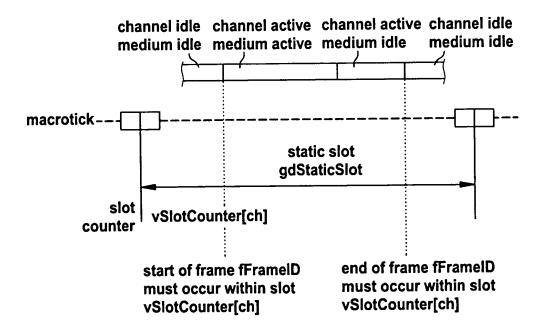


Fig. 38

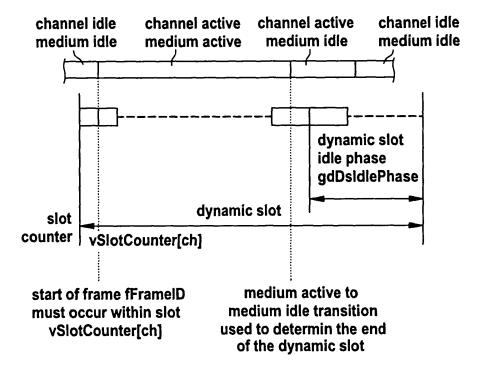
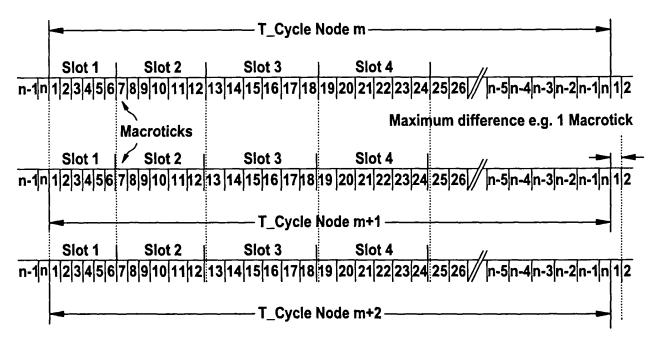


Fig. 39



n = number of Macroticks per cycle

Fig. 40

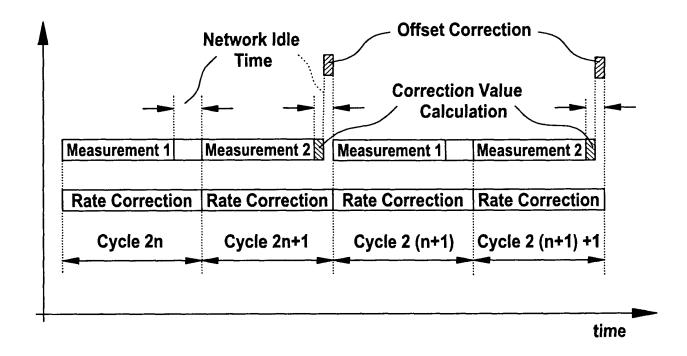


Fig. 41

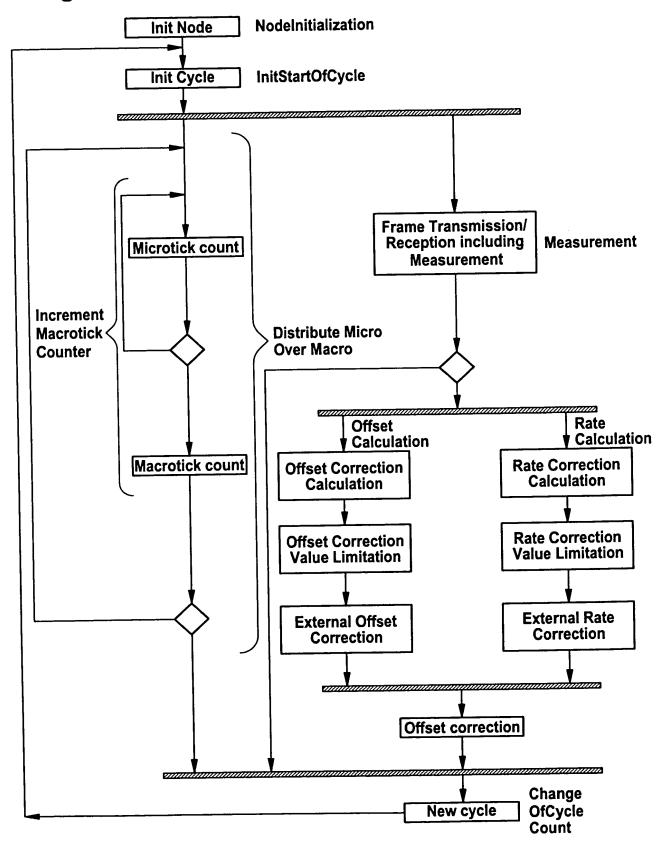
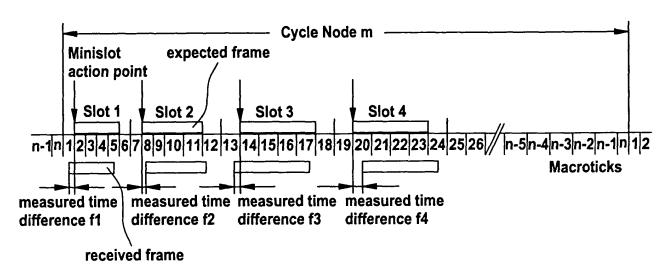


Fig. 42



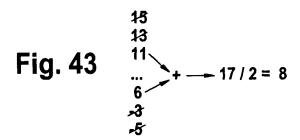


Fig. 44

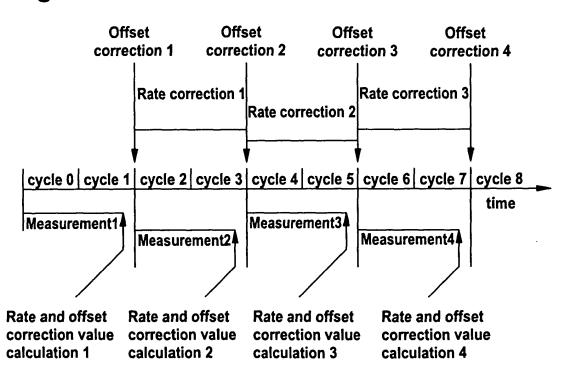


Fig. 45

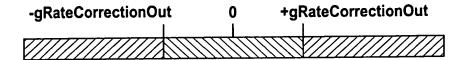
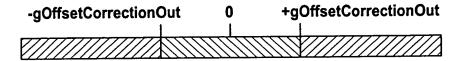


Fig. 46



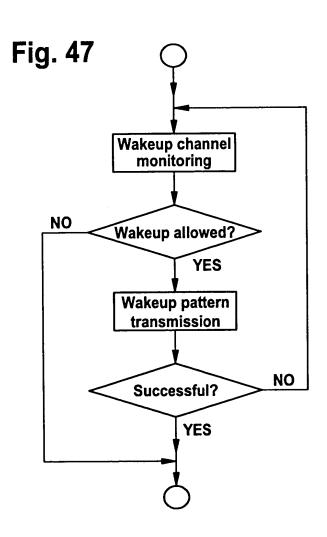


Fig. 48

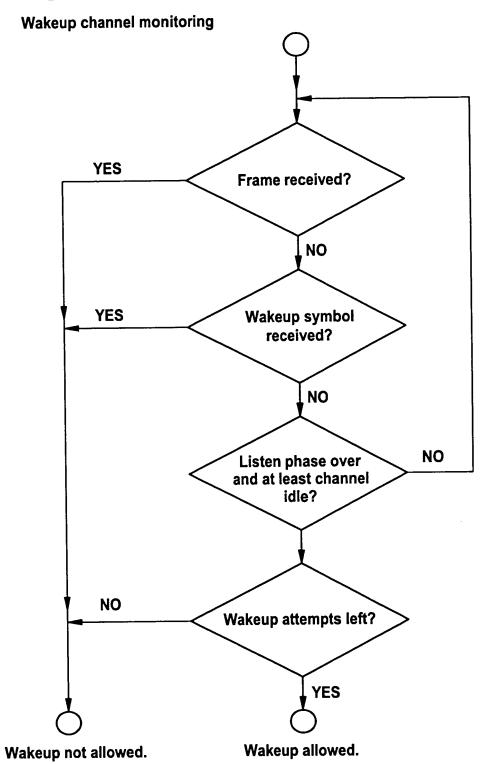


Fig. 49
Wakeup pattern transmission

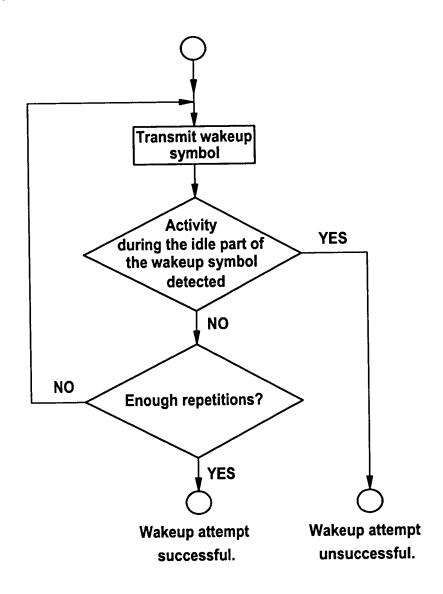


Fig. 50

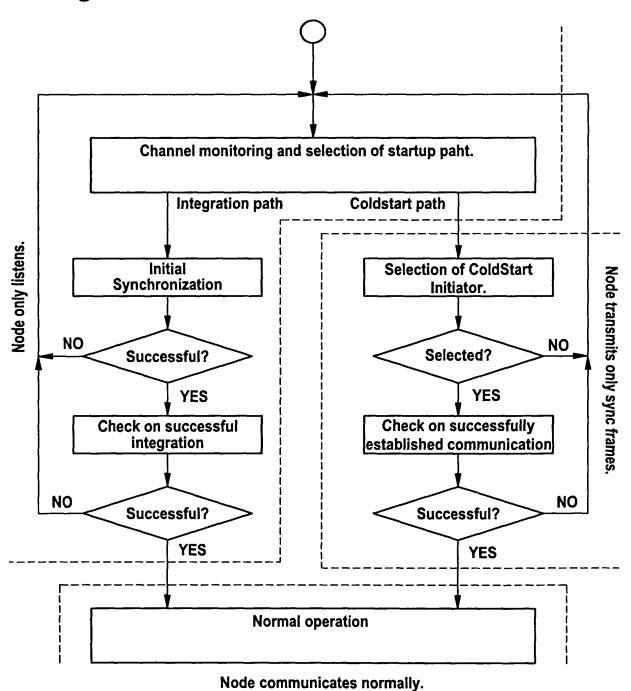


Fig. 51
Channel monitoring and selection of startup path.

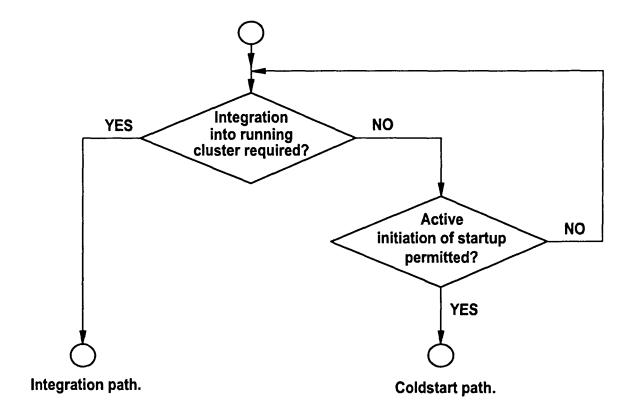


Fig. 52
Selection of ColdStart Initiator

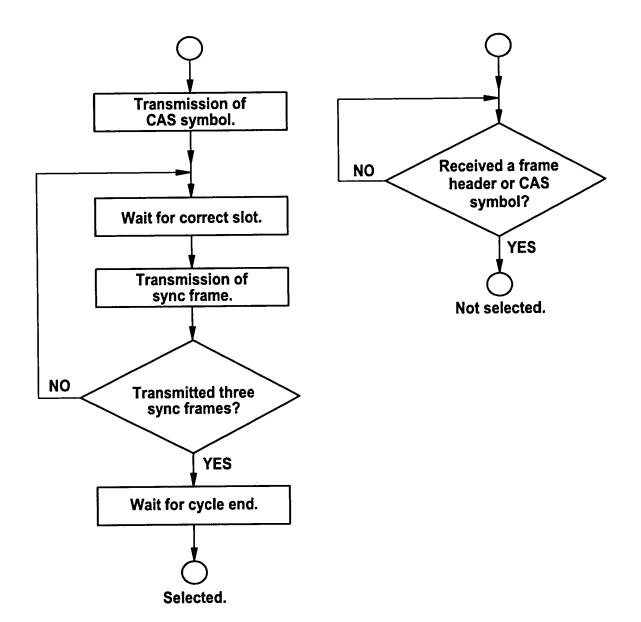


Fig. 53
Check on successfully established communication

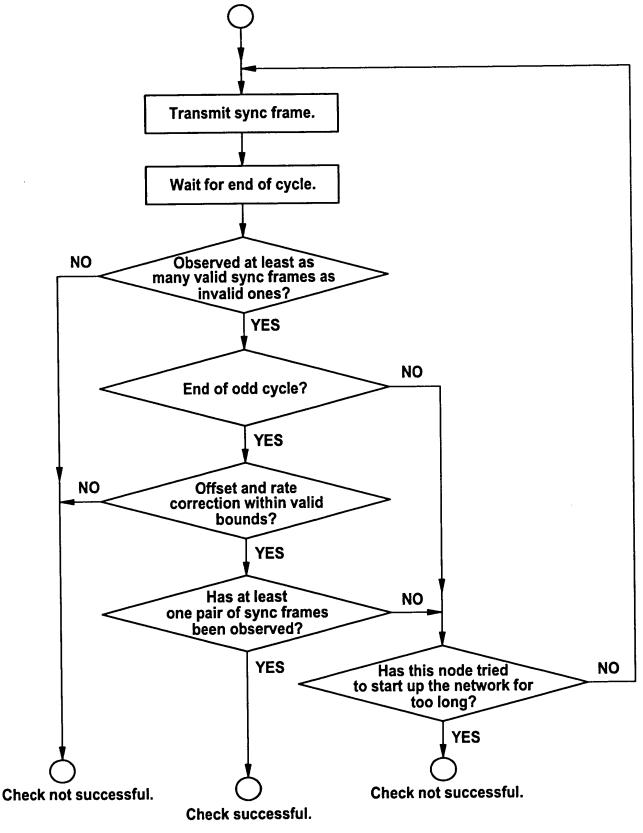


Fig. 54
Initial Synchronization

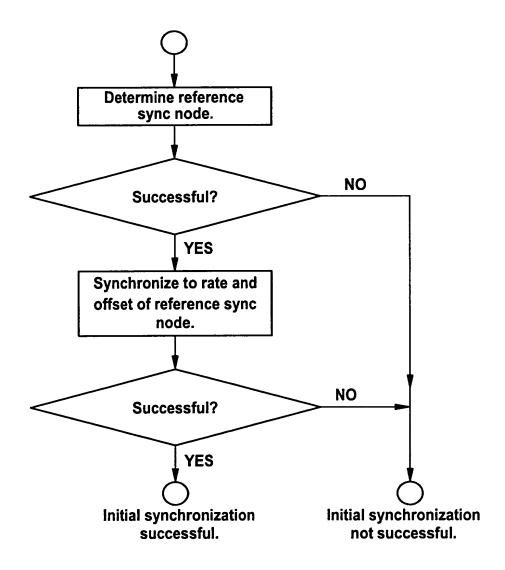


Fig. 55

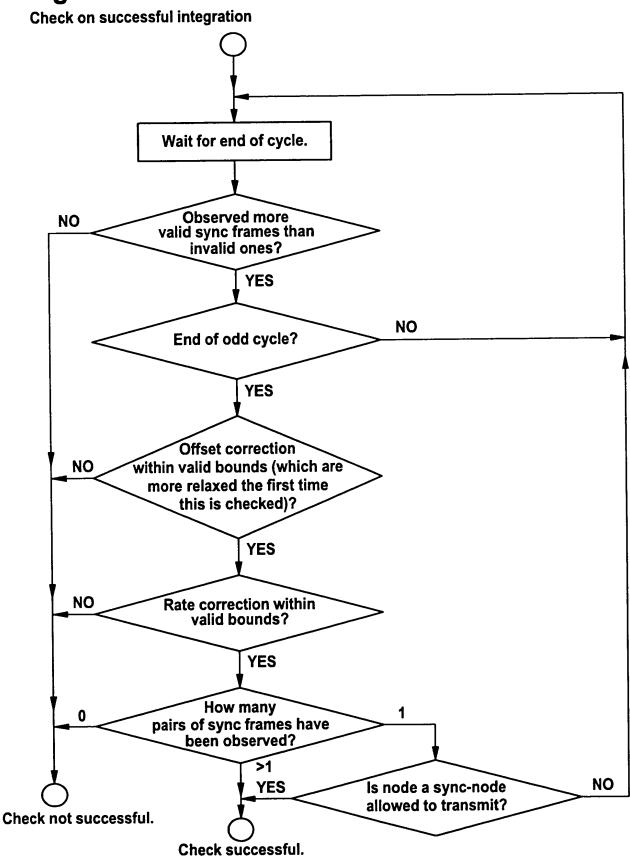
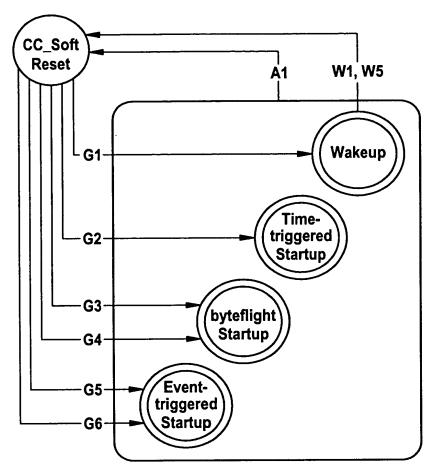


Fig. 56



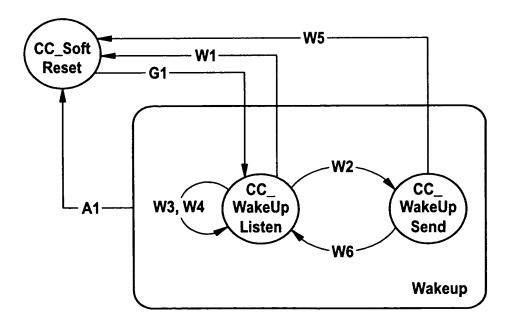
Wakeup state machine for the wakeup ( WU ) protocol mode

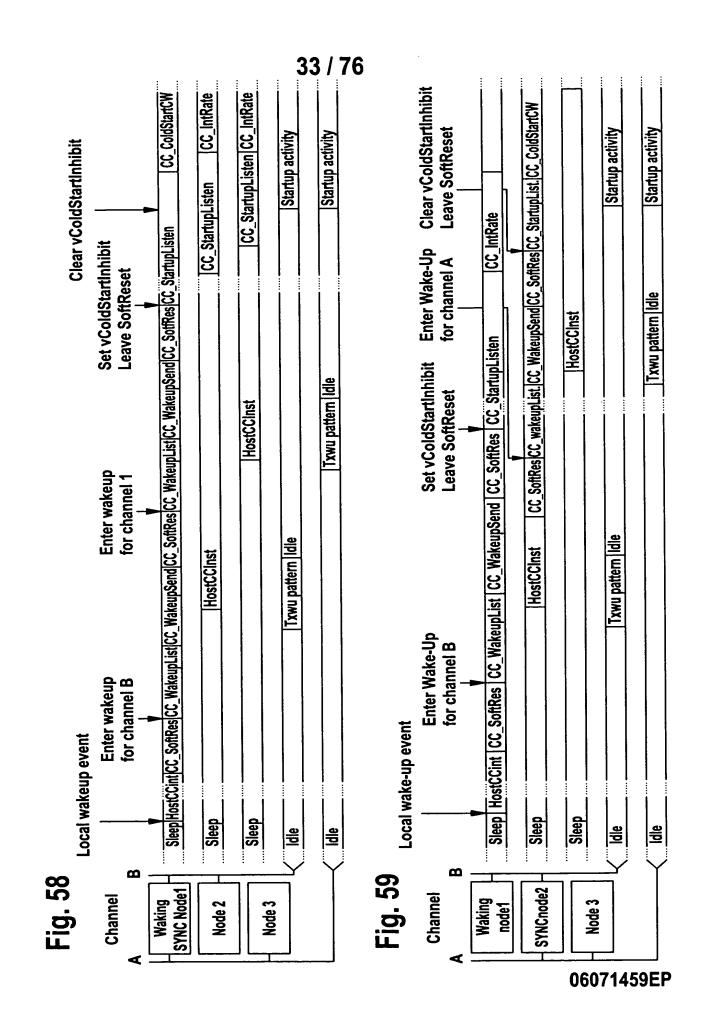
Startup state machine for the time-triggered (TT-D, TT-M) protocol modes

Startup state machine for the byteflight (BF) protocol mode

Startup state machine for the event-triggered (ET) protocol mode

Fig. 57





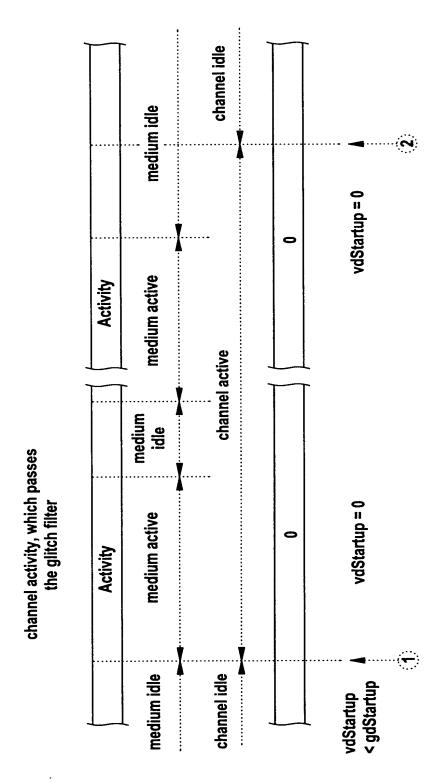


Fig. 60

Fig. 61

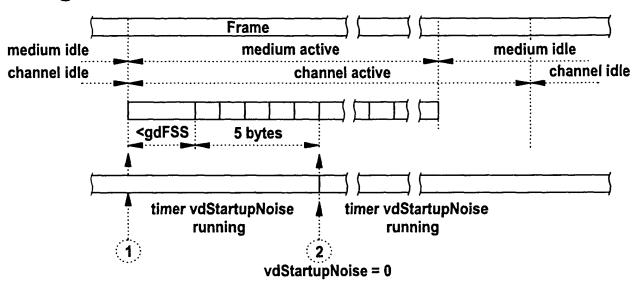


Fig. 62

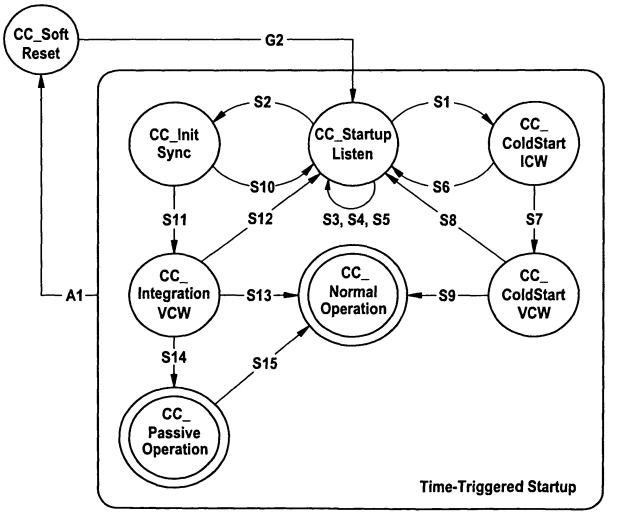
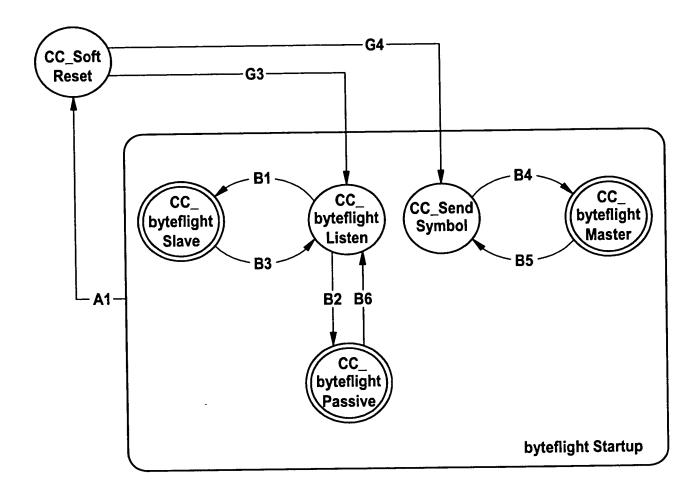


Fig. 63



[7]: cycle time established [7]: (expected/scheduled slot) CC NormalOperation CC NormalOperation ဟ CC NormalOperation S D S D ملِكِاه CC\_ColdStartVCW CC\_IntegrationVCW လင်္ကာဝ D: Data frame (fSyncBit=0) S € 5 CC\_IntegrationVCW တ ြာ FrameID=4; လဏြဝ ColdStartICW CC InitSync CC InitSync S E + 1 လ ြော + တကြာဝ S.Listen CC StartupListen CAS CC SoftR CC S.Listen ပ္ပ CC SoftReset CC S.R. **Local Schedule** Global Schedule Node A **Local Schedule** Node B **Local Schedule** Node C Network **StartupState StartupState StartupState** Protocol Protocol Protocol Legend

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Fig. 64

-: listen timeout (pdStartup)

frame configured, but not transmitted

frame configured and transmitted

3 : fFrameID=3; frame confio⊔

: CAS symbol

0 : fCycleCount even

S : SYNC frame (fSyncBit=1)

1 : fCycleCount odd

CC\_NormalOperation CC\_NormalOperation CC\_NormalOperation CC\_IntegrationVCW CC\_IntegrationVCW S 1 2 2 5 s 1 0 1 0 CC\_IntegrationVCW CC InitSync SIT တ CC\_IntegrationVCW ა<u>\_</u>\_\_0 **StartupListen** S [2] CC InitSync CC S.Listen CAS CC SoftRICC\_S.Listen] CC\_SoftR\_CC\_S.Lister CC SoftReset Node A Protocol StartupState Local Schedule **Local Schedule** Node B Local Schedule Node C Network **Global Schedule StartupState StartupState Protocol Protocol** 

Fig. 65

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: cycle time established (expected/scheduled slot)

: listen timeout (pdStartup)

frame configured, but not transmitted

frame configured and transmitted

က

: CAS symbol

Legend

0 : fCycleCount even

S:SYNC frame (fSyncBit=1) ☐:fFramelD=3;

: fCycleCount odd

D: Data frame (fSyncBit=0): fFrameID=4; frame configured. but not

[]: cycle time established [] (expected/scheduled slot) CC\_IntegrationVCW CC\_IntegrationVCW တကြ ဝ CC ColdStartVCW CC InitSync CC InitSync တကြ <u>ა ლ ე</u> တကြာဝ CC\_InitSync | CC\_Int.VCW | CC\_StartupListen CC StartupListen D: Data frame (fSyncBit=0) လဏ CC Int.VCW Ë Š CC ColdStartICW CC InitSync **□**[ ა<u>ლ</u>+ S : SYNC frame (fSyncBit=1) ດ<u>ພ</u>ວ တကြာဝ CC StartupListen CC StartupListen CAS CAS, CC SoftR.CC S.Listen CC SoftReset CC Soft. Protocol StartupState **Global Schedule** Local Schedule Local Schedule Protocol StartupState Local Schedule Network Node B Node C Node A **StartupState** Protocol Legend

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Fig. 66

: listen timeout (pdStartup)

frame configured, but not transmitted

frameID=4; frame configu

frame configured and transmitted

3 : fFrameID=3; frame confiα

: CAS symbol

0 : fCycleCount even

: fCycleCount odd

Fig. 67

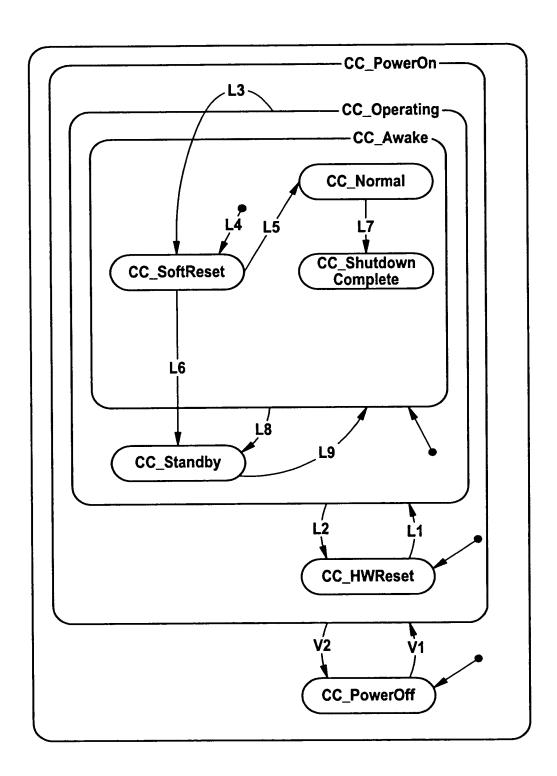


Fig. 68

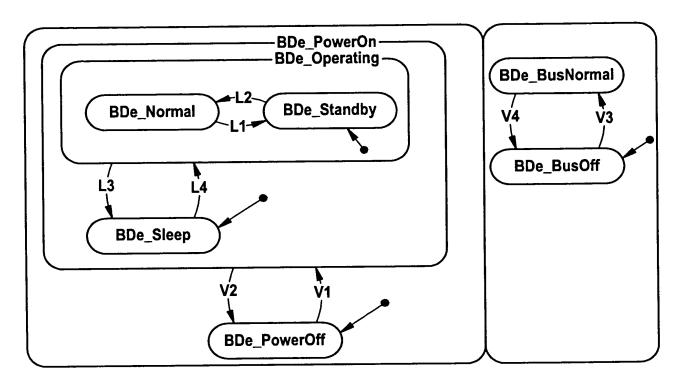


Fig. 69

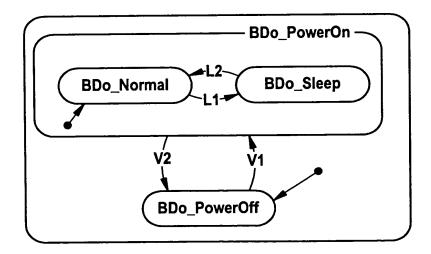


Fig. 70

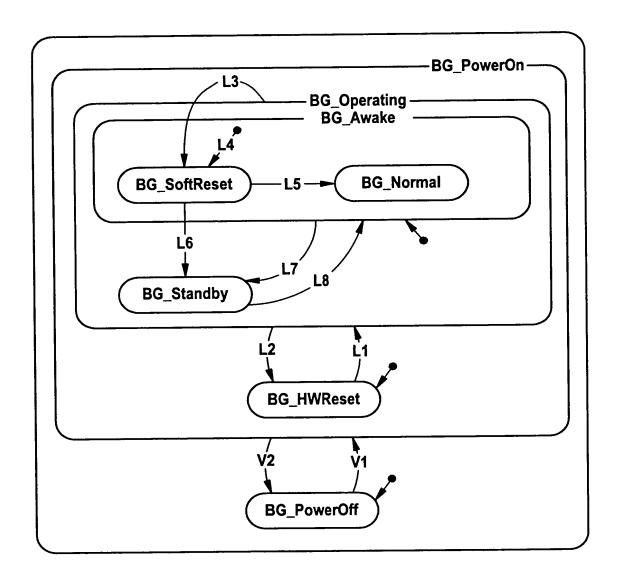


Fig. 71

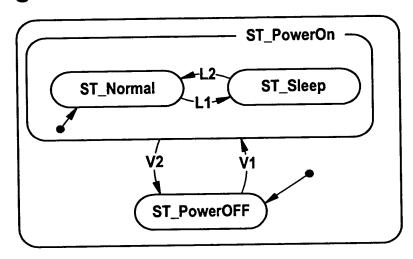


Fig. 72

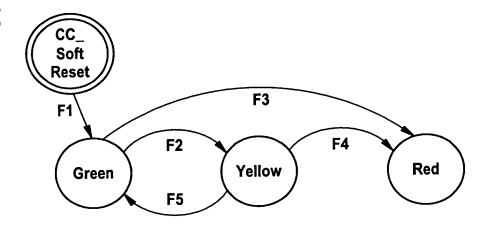
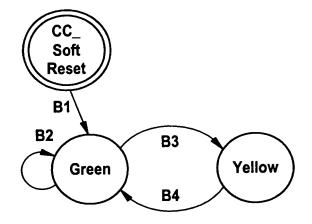


Fig. 73



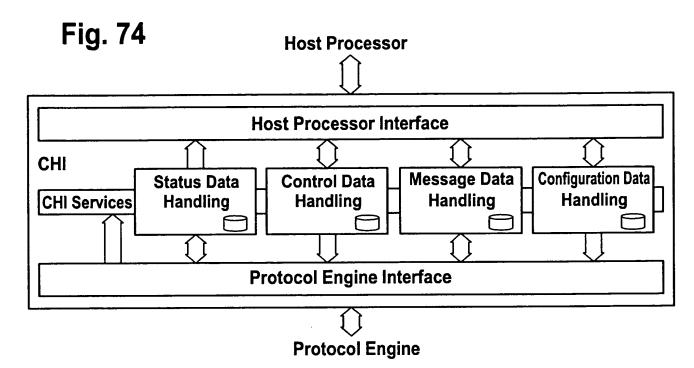


Fig. 75

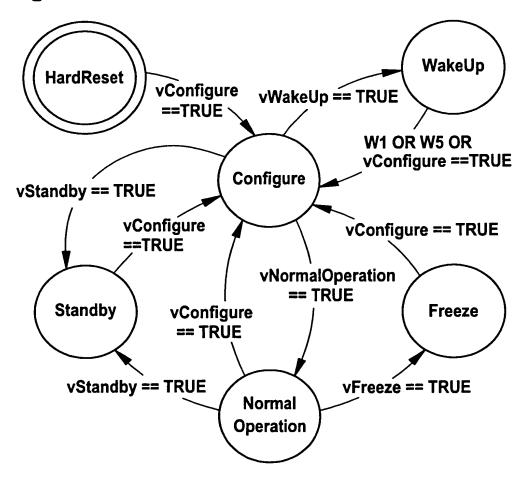


Fig. 76

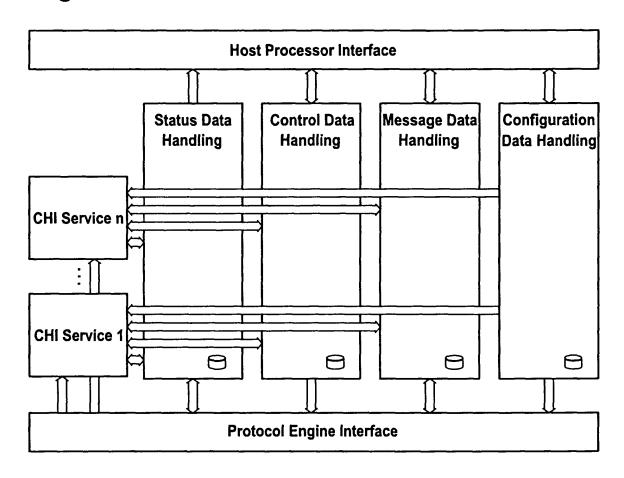


Fig. 77

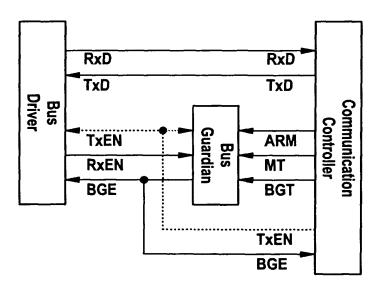


Fig. 78

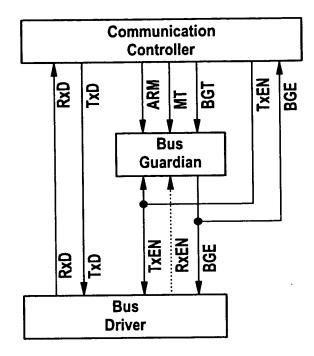


Fig. 79

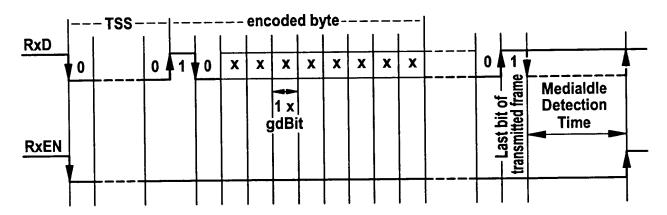


Fig. 80

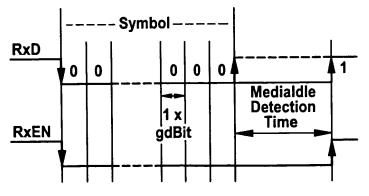


Fig. 81

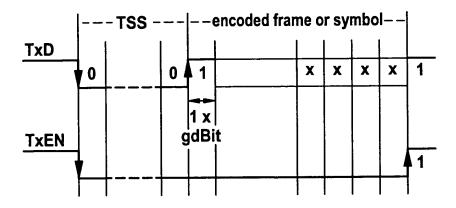
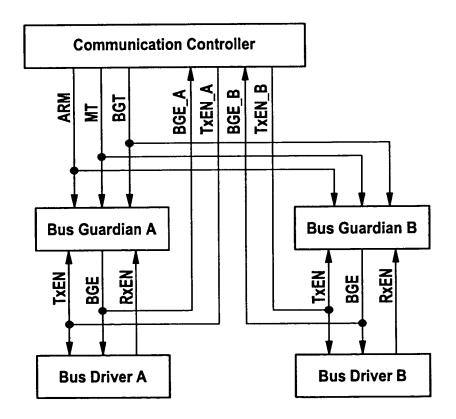
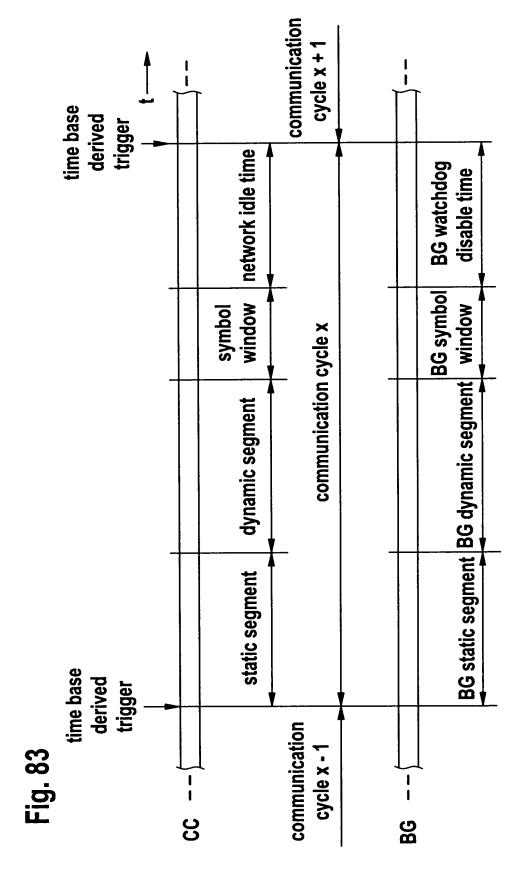
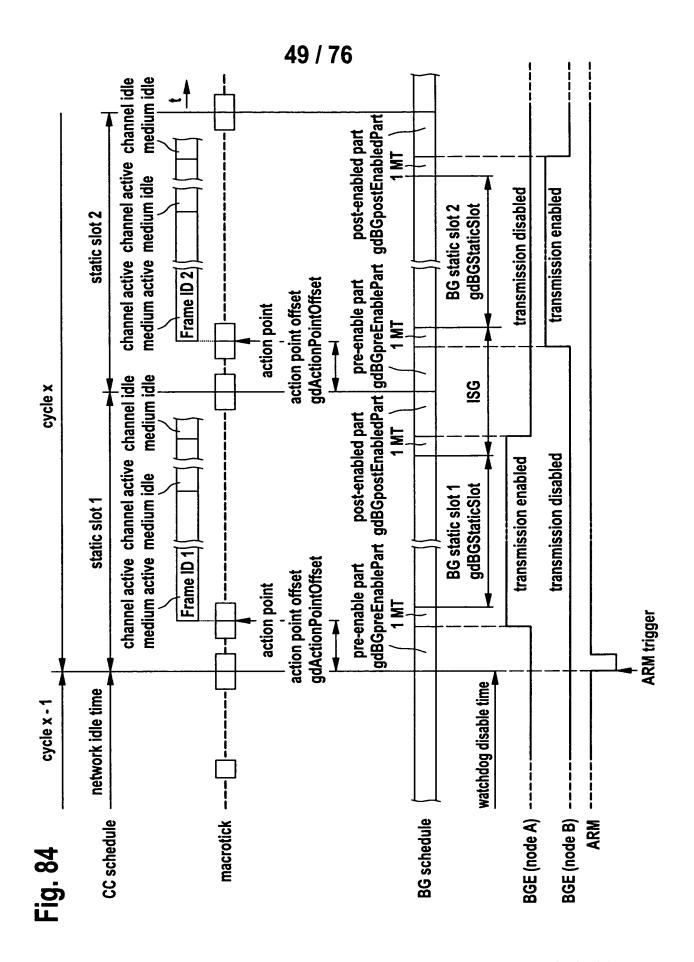
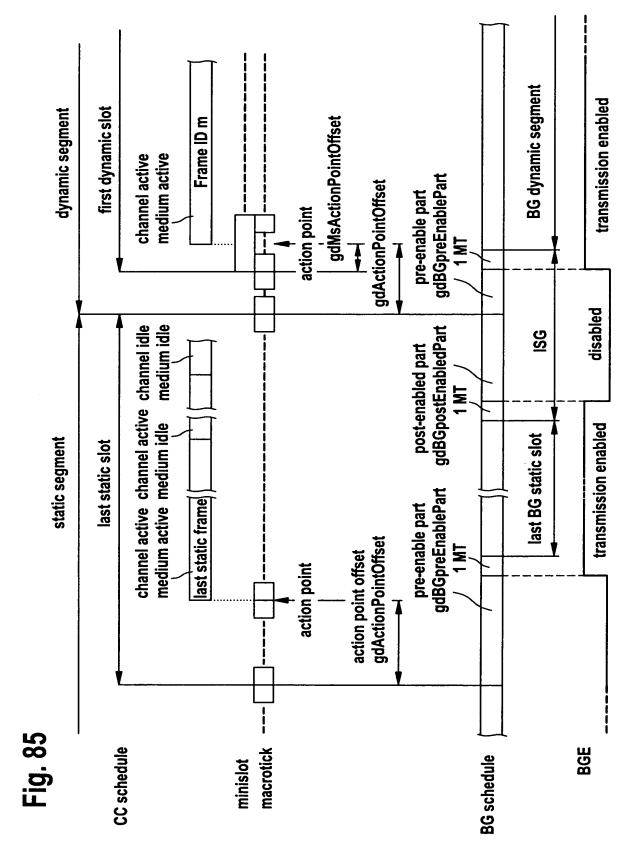


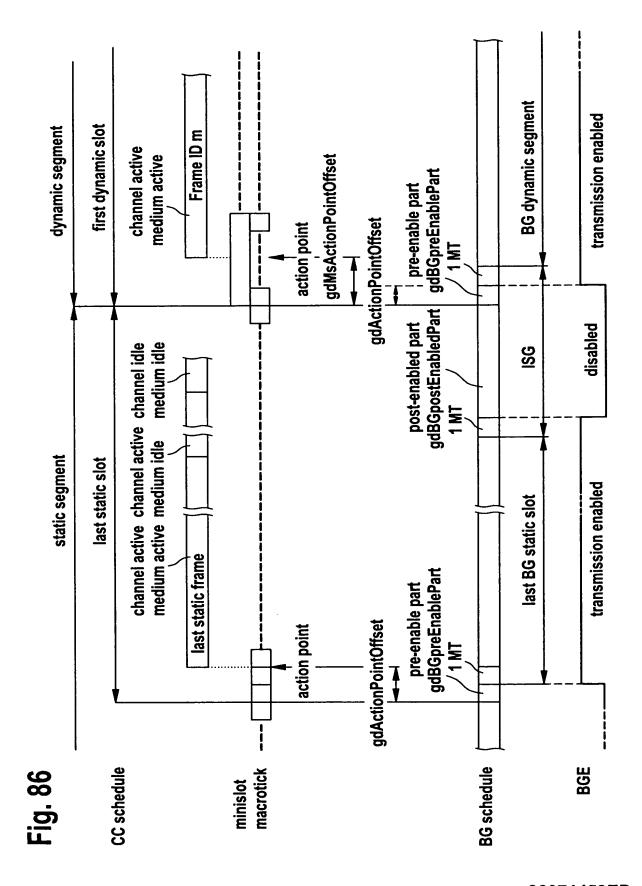
Fig. 82

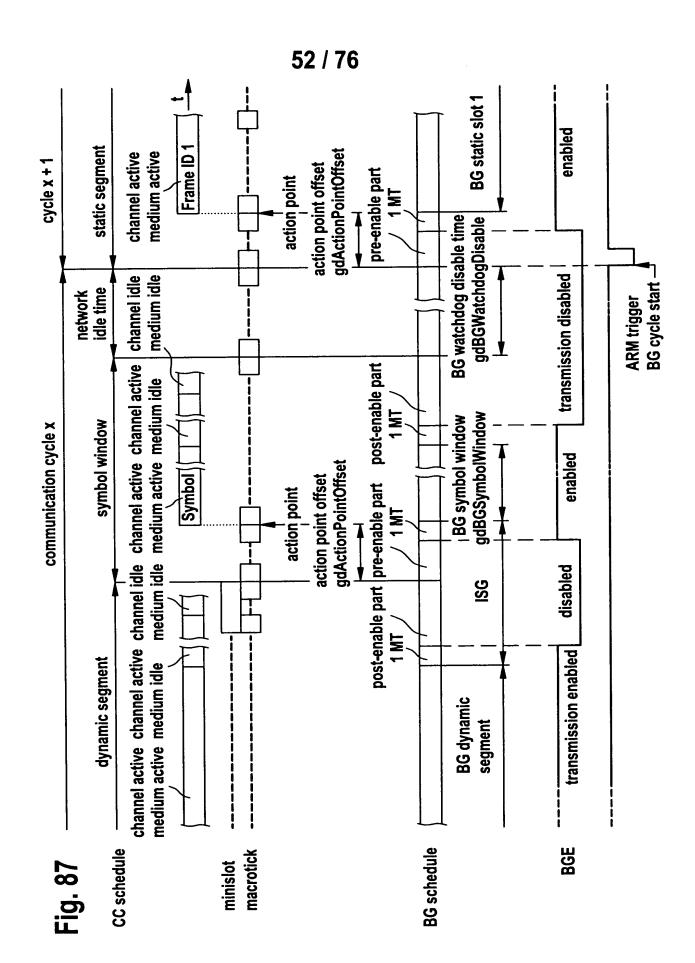












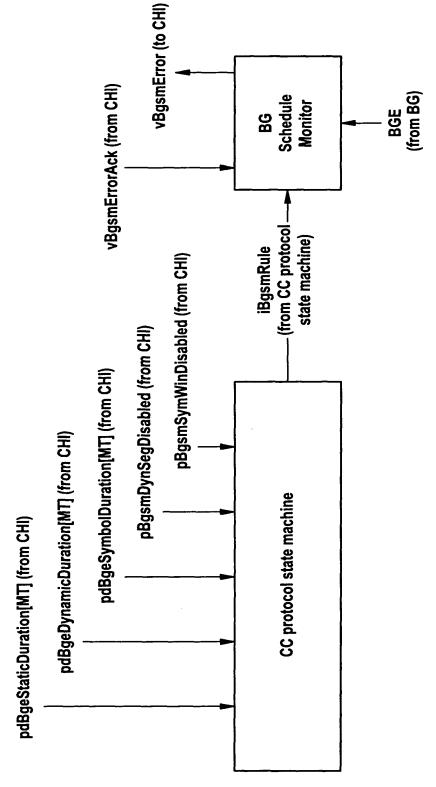
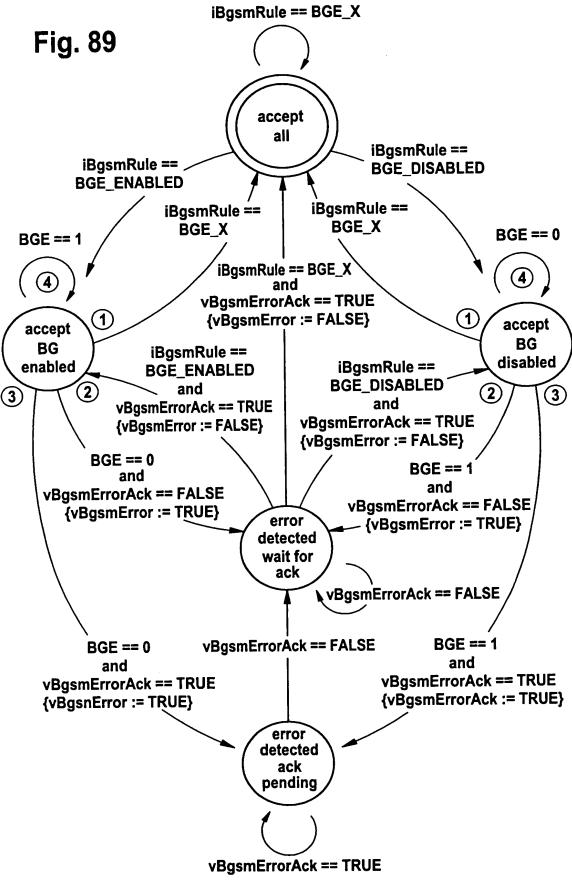
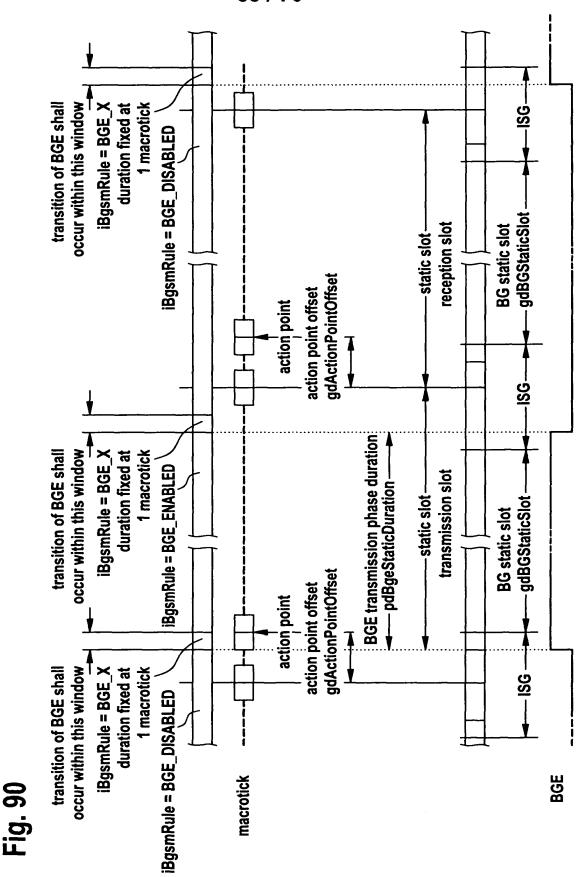
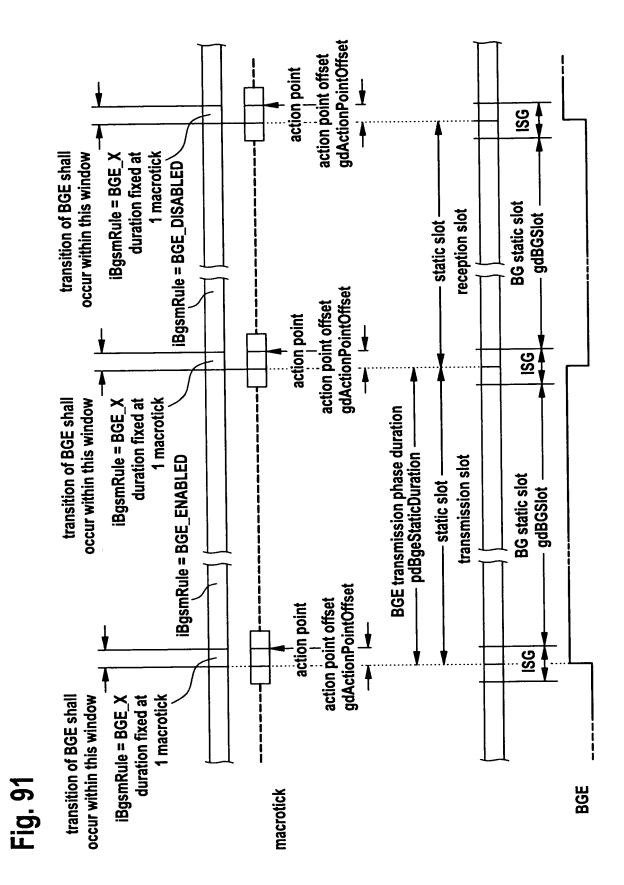


Fig. 88

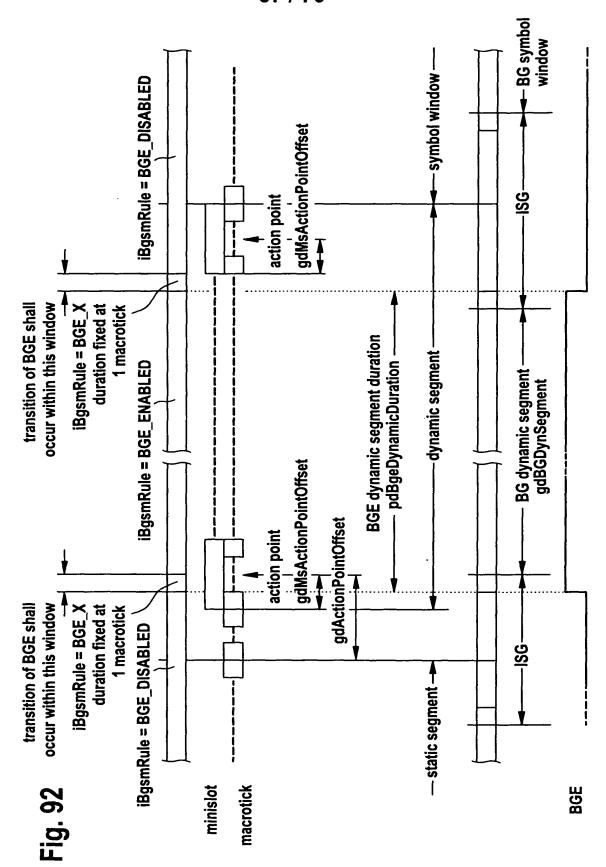








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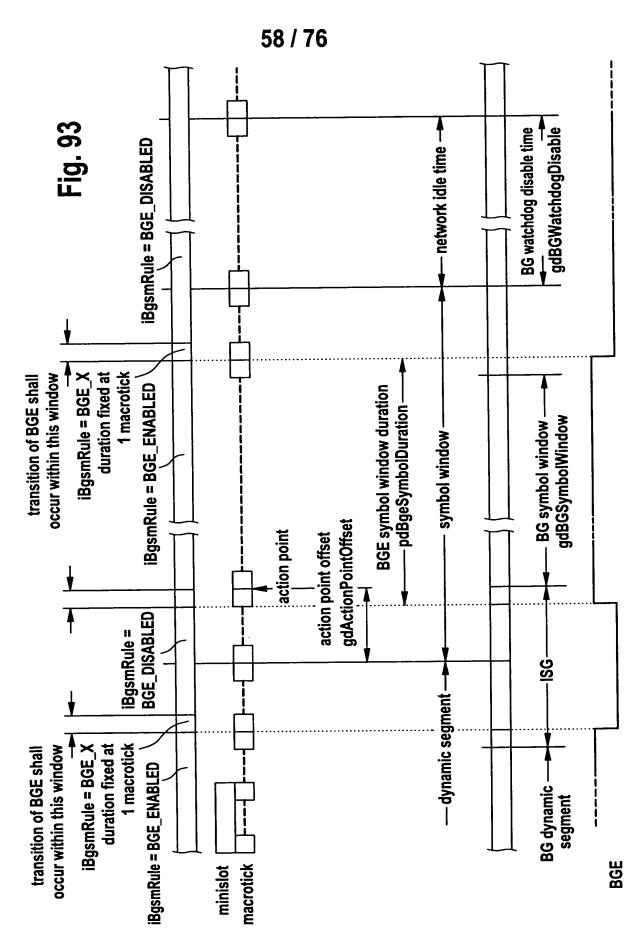


Fig. 94

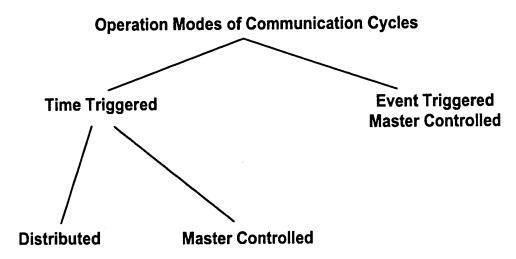
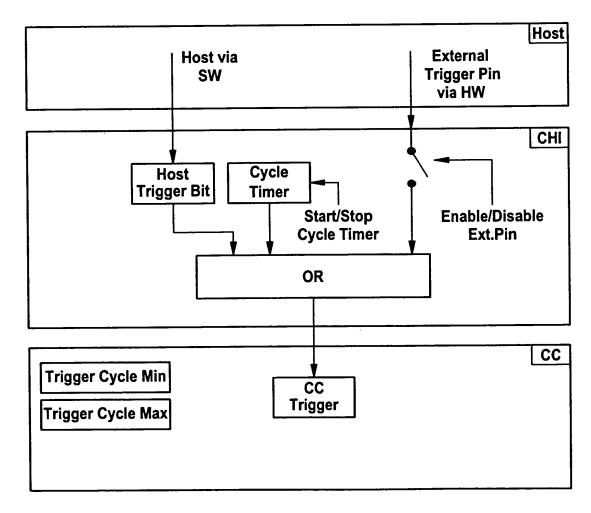
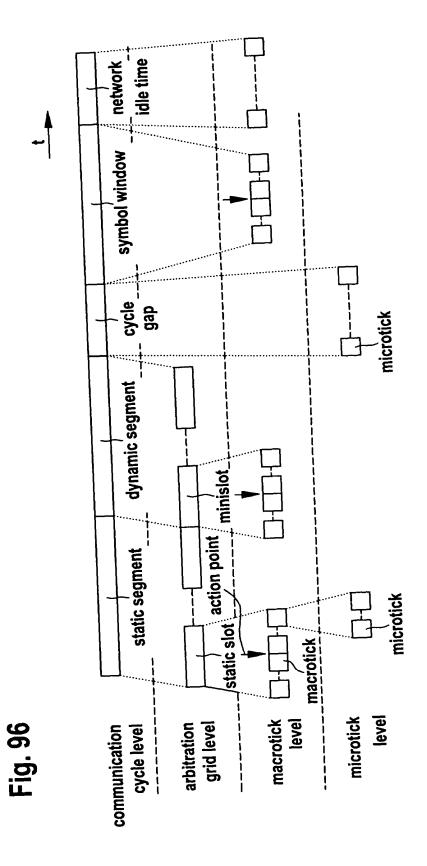
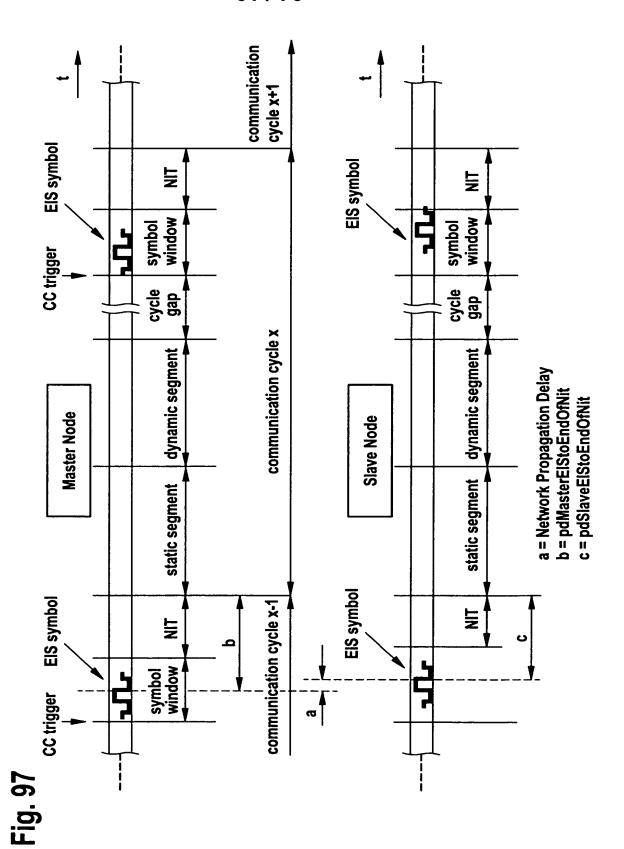


Fig. 95







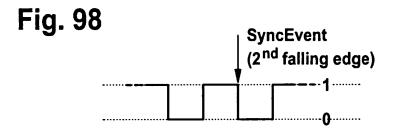
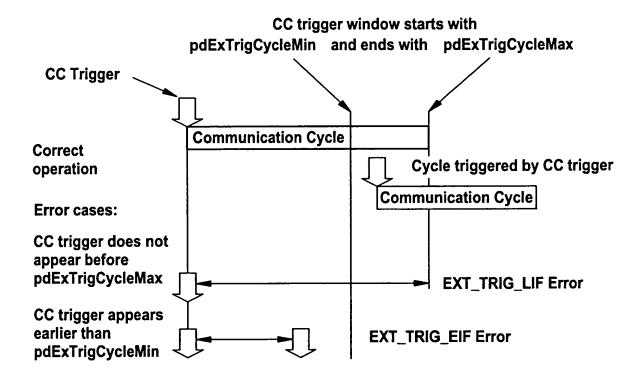


Fig. 99



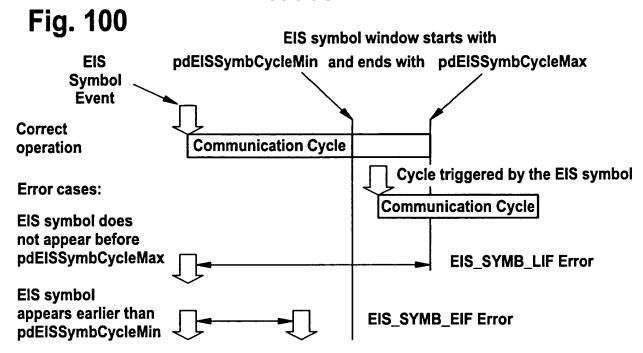


Fig. 101

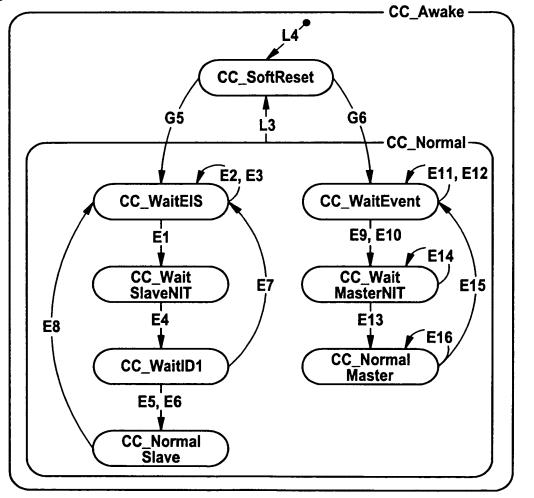
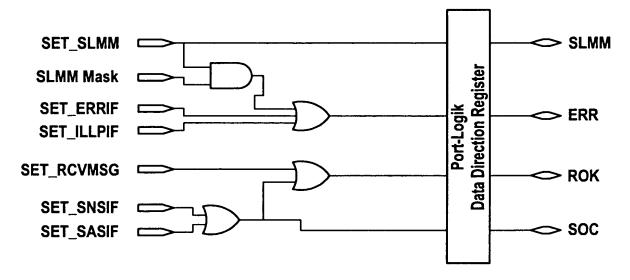


Fig. 102



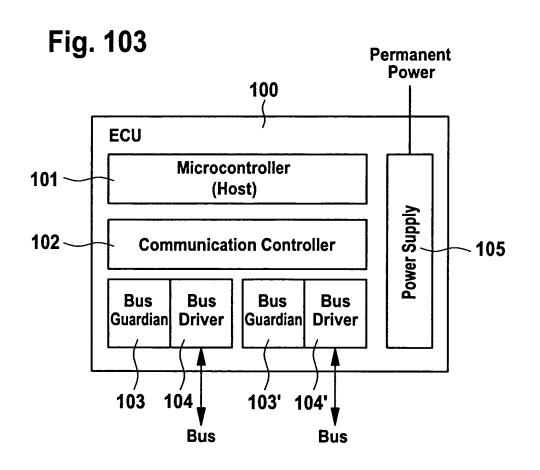


Fig. 104

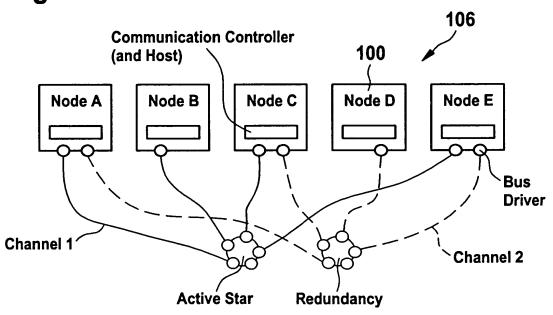
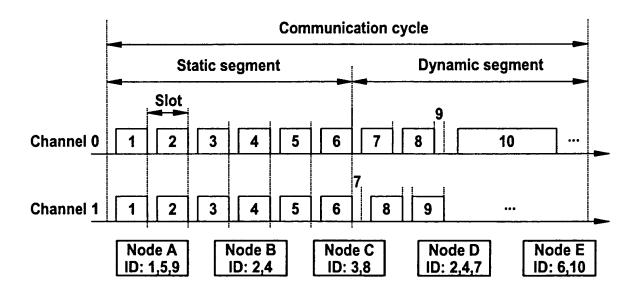


Fig. 105



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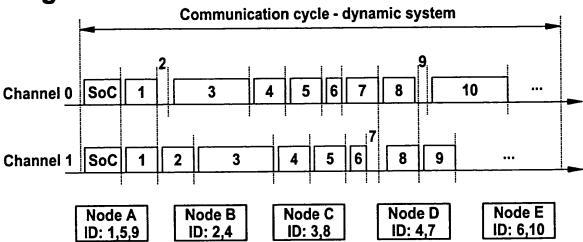
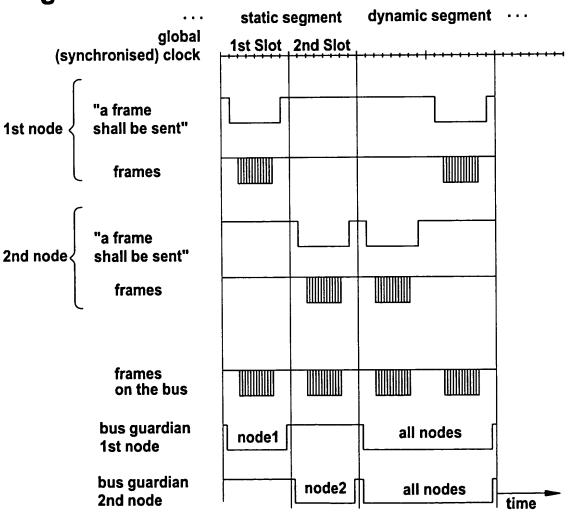
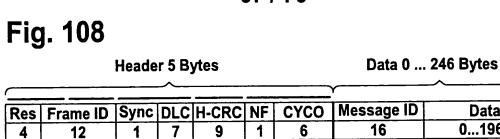


Fig. 107





Configurable

Fig. 109

	leade Byte		Data 0 12 Bytes	CRC Code (15 Bit) + Frame Completion Bit	
ID	RES	LEN	DATA	CRC	FCB
8	4	4	0 96	15	1

Fig. 110

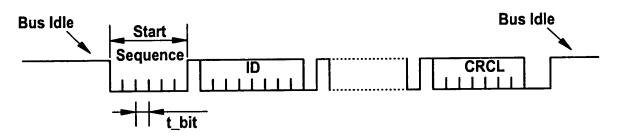


Fig. 111

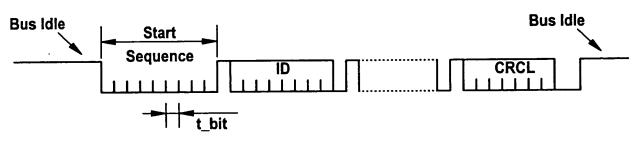
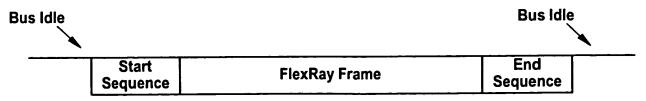


Fig. 112



**CRC Code** 

3 Bytes

CRC

24

Data 0...1968

Fig. 113

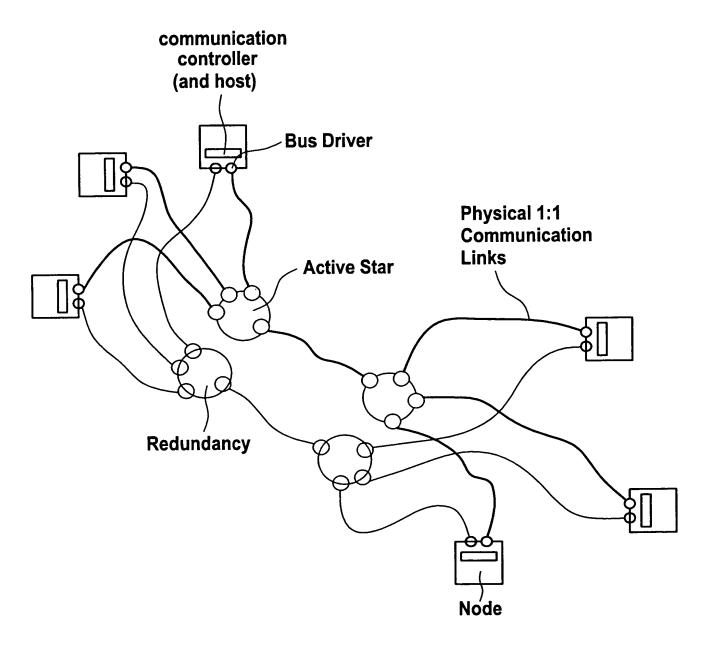


Fig. 114

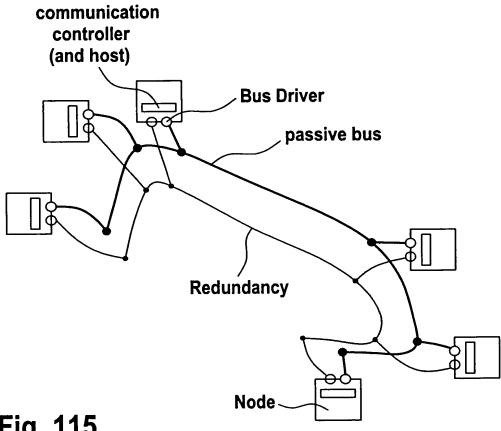
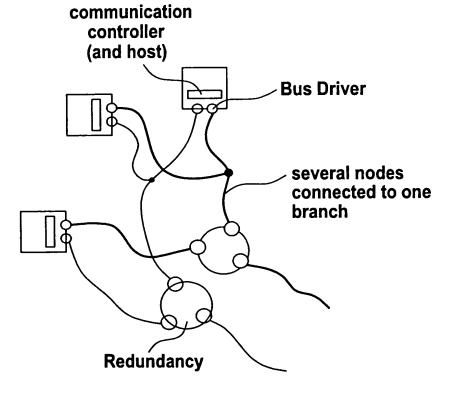
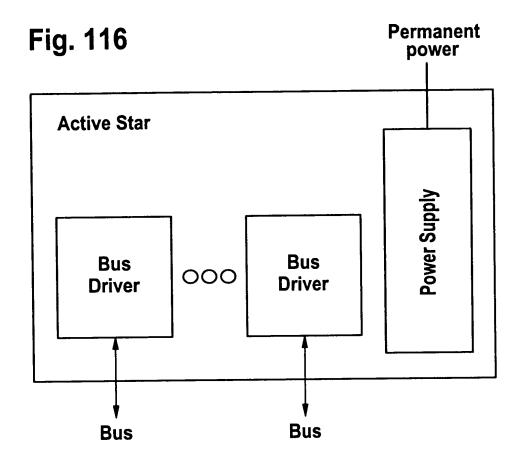
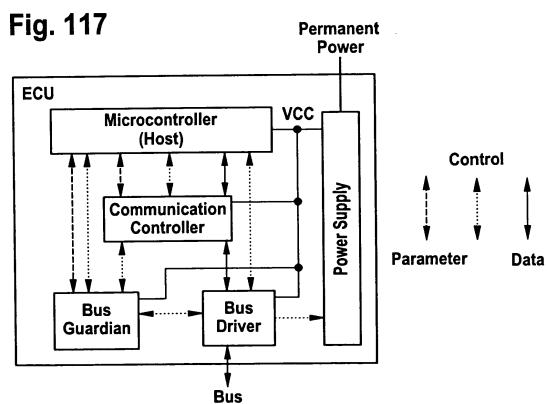


Fig. 115







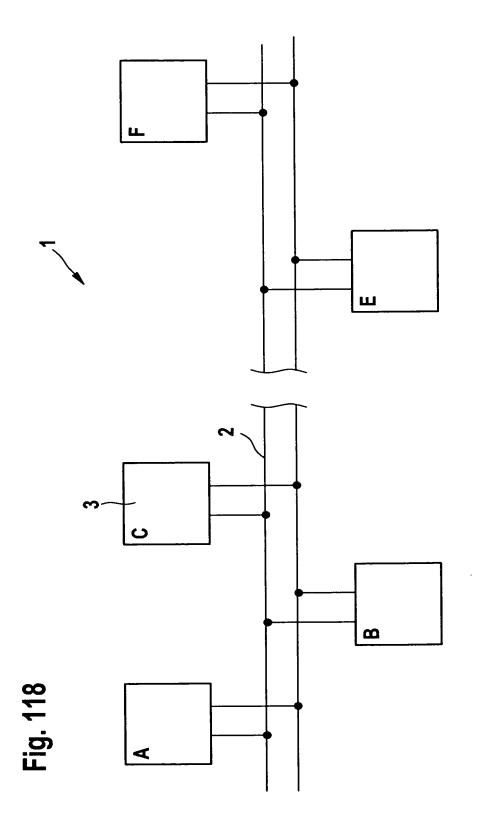


Fig. 119

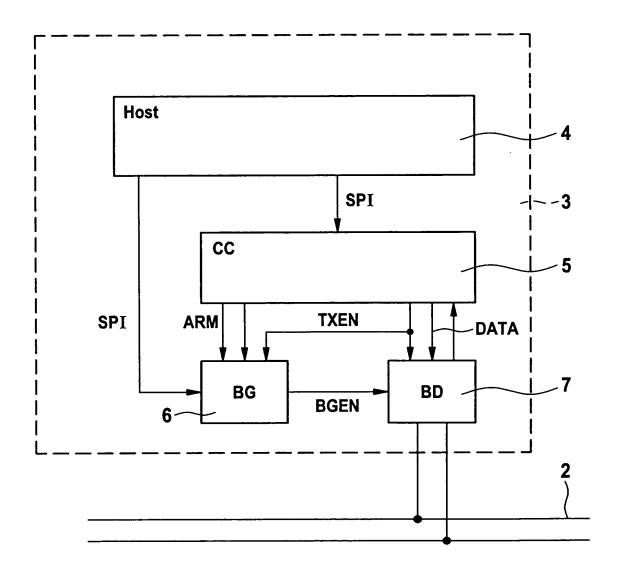


Fig. 120

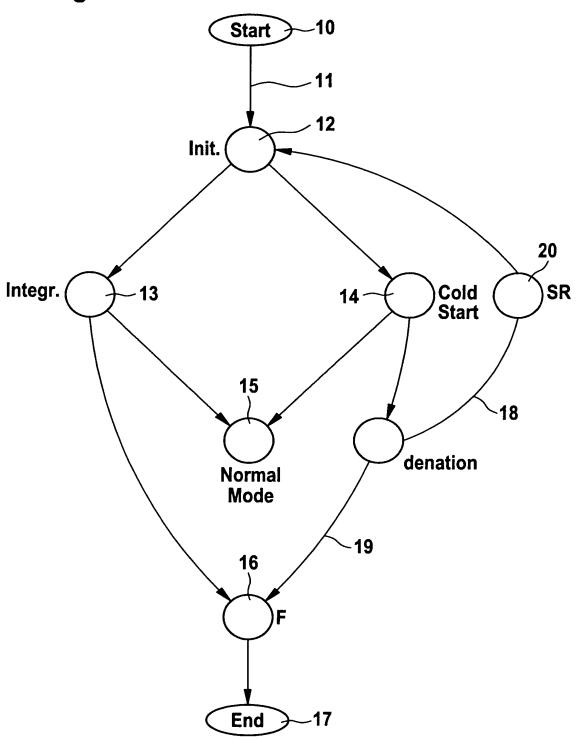


Fig. 121

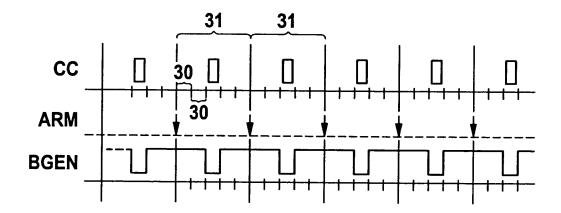


Fig. 122

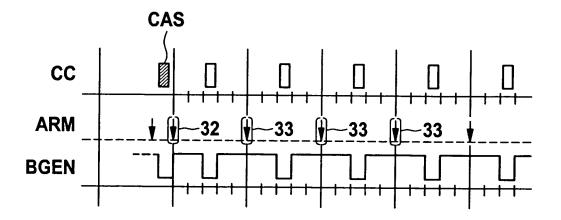


Fig. 123

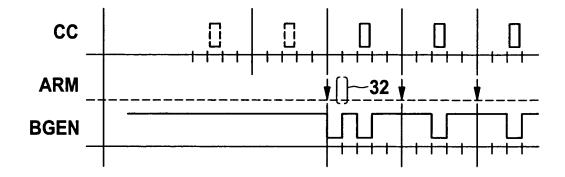
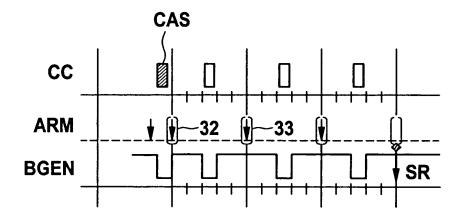


Fig. 124



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Fig. 125

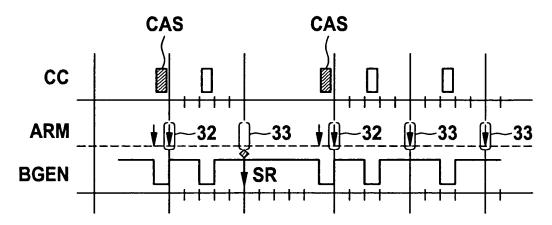


Fig. 126

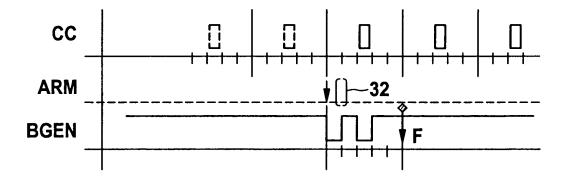


Fig. 127

